NC/QC/W-09/2018-19/VP-C1 Date: 01-02-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing Gym equipments to Park in Ward No.9, Vidyaranyapura.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : RAMCO
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**162 min**	Shall not be less than 30 min.
2	Final setting time	**275min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.85 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.36 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.76 N/Sq mm**	Shall not be less than 27 N/Sqmm

K. R
KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/W-09/2018-19/VP-PCC1 Date: 01-02-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Providing Gym equipments to Park in Ward No.9, Vidyaranyapura.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**65.15**	0 -20	30- 70
10mm	**28.05**	0 -5	10- 35
4.75mm	**3.445**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**100.00**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**97.35**	60-95	75-100	85-100	
01.18	**85.15**	30-70	55-90	75-100	
600.mic	**47.25**	15-34	35-59	60-79	
300.mic	**18.60**	5-20	8-30	12-40	
150.mic	**5.95**	0-10	0-10	0-10	

K. R
KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/W-09/2018-19/VP-C2 Date: 11-02-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing Gym equipments to Park in Ward No.9, Vidyaranyapura.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : RAMCO
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**168 min**	Shall not be less than 30 min
2	Final setting time	**280 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.965 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.06 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results	**28.15 N/Sq mm**	Shall not be less than 27 N/Sqmm

Page No. 1/1,

KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

For Newzen Consultants Bangalore
Proprietor

NC/QC/W-09/2018-19/VP-FA1 **Date: 11-02-2019**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Providing Gym equipments to Park in Ward No.9, Vidyaranyapura.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**96.85**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**85.15**	60-95	75-100	85-100	
01.18	**78.30**	30-70	55-90	75-100	
600. mic	**42.60**	15.34	35-59	60-79	
300.mic	**19.05**	5-20	8-30	12-40	
150.mic	**7.45**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**17.85 %**	-----
2	Silt Content	----	**0.60 %**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

K. R
KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/W-09/2018-19/VP-CA1

Date: 11-02-2019

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Providing Gym equipments to Park in Ward No.9, Vidyaranyapura.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	**100.00**	100.00	100.00
20 mm	**97.25**	85-100	90 - 100
10 mm	**45.60**	0 - 20	25 - 55
4.75 mm	**4.30**	0 - 5	0 - 10

TABLE 1. 2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	**22.83 %**	Not to exceed 25 %
2.	Crushing value	**26.35 %**	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

K. R
KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/W-09/2018-19/VP-CB1 Date: 21-02-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing Gym equipments to Park in Ward No.9, Vidyaranyapura.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)*	Avg. Value
1	001	14-02-19	21-02-19	07	22500	300	13.33	**13.63**
	002	"	"	"	"	315	14.00	
	003	"	"	"	"	305	13.56	

K. R
KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/W-09/2018-19/VP-CB2 Date: 21-02-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing Gym equipments to Park in Ward No.9, Vidyaranyapura.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	14-02-19	21-02-19	07	22500	305	13.56	**13.48**
	002	"	"	"	"	310	13.78	
	003	"	"	"	"	295	13.11	

KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/W-09/2018-19/VP-CB1a **Date: 14-03-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing Gym equipments to Park in Ward No.9, Vidyaranyapura.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	14-02-19	14-03-19	28	22500	375	16.67	**17.11**
	002	"	"	"	"	395	17.56	
	003	"	"	"	"	385	17.11	

K...R
KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/W-09/2018-19/VP-CB2a

Date: 14-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing Gym equipments to Park in Ward No.9, Vidyaranyapura.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	14-02-19	14-03-19	28	22500	400	17.78	**17.33**
	002	"	"	"	"	390	17.33	
	003	"	"	"	"	380	16.89	

KIRAN. R
M.E, (Civil-Engg)

Page No. 1/1,

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

For Newzen Consultants Bangalore
Proprietor

NC/QC/W-09/2018-19/VP -K1 **Date: 25-02-2019**

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Providing Gym equipments to Park in Ward No.9, Vidyaranyapura.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.38	23.40	**23.16**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.35	22.95		
3	003	3.36	23.15		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.39	**4.52s**
2	002	4.55	
3	003	4.63	

KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NCQC/W-09/2018-19/VP-K2

Date: 25-02-2019

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Providing Gym equipments to Park in Ward No.9, Vidyaranyapura.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.39	23.55	**22.95**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.34	22.80		
3	003	3.37	23.30		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.42	**4.53**
2	002	4.55	
3	003	4.63	

KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com